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PTO/SB/92 (09-04)  
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application No. (if known): 10/525710

Attorney Docket No.: 13111-00006-US

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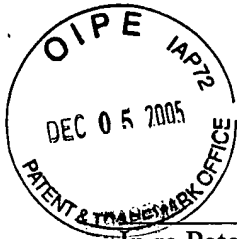
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Information Disclosure Statement (2 pages)  
SB/08 (4 pages)  
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Docket No.: 13111-00006-US  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Burkhard Kröger et al.

Application No.: 10/525710

Confirmation No.: 3746

Filed: February 24, 2005

Art Unit: 1645

For: METHOD FOR ZYMOTIC PRODUCTION  
OF FINE CHEMICALS CONTAINING  
SULPHUR (METY)

Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT (IDS)**

MS Amendment  
Commissioner for Patents  
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Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

Please note that the co-pending U.S. national stage applications referred to in the previously submitted Information Disclosure Statement have now received U.S. application serial numbers. Previously submitted PCT published application WO-2004/024931 corresponds to U.S. national stage application Serial No. 10/525,907 and PCT published application WO-2004/024932 corresponds to U.S. national stage application Serial No. 10/525,674.

Further note that PCT published application WO-2003/087386 enclosed herewith corresponds to U.S. national stage application Serial No. 10/511,302.

Of the documents listed on the attached SB/08 are the documents cited in the International Search Report during the prosecution of international application no. PCT/EP2003/009453, which corresponds to the above referenced application and which had not been previously submitted. In accordance with 37 CFR 1.97(b)(3), Applicants hereby submit these documents for the Examiner's consideration. A copy of each document required under 37 CFR 1.98(a)(2) is enclosed.

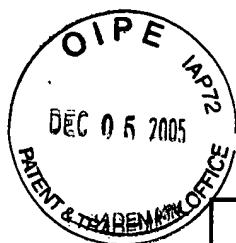
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Applicants believe no fee is due. However, if a fee is due, the Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 03-2775, under Order No. 13111-00006-US, from which the undersigned is authorized to draw.

Respectfully submitted,

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PTO/SB/08a/b (07-05)

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<b>Substitute for form 1449A/B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/525710-Conf. #3746
				Filing Date	February 24, 2005
				First Named Inventor	Burkhard Kröger
				Art Unit	1645
				Examiner Name	Not Yet Assigned
Sheet	1	of	4	Attorney Docket Number	13111-00006-US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	AA*	US-5,965,391	10-12-1999	Reinscheid et al.	
	AB*	US-5,158,891	10-27-1992	Takeda et al.	
	AC*	US-2003/0170775-A1	09-11-2003	Pompejus, et al.	
	AD*	US-4,489,160	12-18-1984	Katsumata et al.	
	AE*	US-4,601,893	07-22-1986	Cardinal	
	AF*	US-5,175,108	12-29-1992	Bachmann et al.	
	AG*	US 10/511,302		Kröger et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	BA	EP-1108790-A2	06-20-2001	Kyowa Hakko Kogyo Co., Ltd.		
	BB	DE-10046870-A1	03-28-2002	BASF Aktiengesellschaft		See US-2003/0170775-A1
	BC	WO-03/100072-A2	12-04-2003	BASF Aktiengesellschaft		
	BD	EP-0472869-A2	03-04-1992	Degussa AG		See US 5,175,108.
	BE	WO-96/15246-A1	05-23-1996	Forschungszentrum Jülich GMBH		See US 5,965,391.
	BF	JP-10-229891-A	09-02-1998	Mitsubishi Rayon Co., Ltd.		See Abstract.
	BE	WO-2003/087386-A3	10-23-2003	BASF Aktiengesellschaft		See US 10/511,302

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
	CA	KASE, H., ET AL., "L-Methionine Production by Methionine Analog-resistant Mutants of <i>Corynebacterium glutamicum</i> ", Agr. Biol. Chem., Vol. 39, No. 1, 1975, pp. 153-160.			
	CB	MARTIN, J. F., ET AL., "Cloning Systems in Amino Acid-Producing <i>Corynebacteria</i> ", Biotechnology, Vol. 5, 1987, pp. 137-146.			
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Examiner Signature	Date Considered
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			Art Unit	1645	
			Examiner Name	Not Yet Assigned	
Sheet	2	of	4	Attorney Docket Number	13111-00006-US

CE	LENNOX, E.S., "Transduction of Linked Genetic Characters of the Host by Bacteriophage P1", <i>Virology</i> , Vol. 1, 1955, pp. 190-206.
CF	SAHIN-TOTH, M., ET AL., "Cysteine scanning mutagenesis of the N-terminal 32 amino acid residues in the lactose permease of <i>Escherichia coli</i> ", <i>Protein Sciences</i> , Vol. 3, 1994, pp. 240-247.
CG	MALAKHOVA, I. I., ET AL., "Thin-Layer Chromatography of Free Amino Acids. Selection of Conditions for the Separation of L-Lysine, L-Homoserine, and L-Threonine", <i>Biokhimiya</i> , Vol. 11, 1996, pp. 27-32.
CH	WAHL, G. M., ET AL., "Cosmid vectors for rapid genomic walking, restriction mapping, and gene transfer", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 84, 1987, pp. 2160-2164.
CI	EIKMANN, B. J., "Identification, Sequence Analysis, and Expression of a <i>Corynebacterium glutamicum</i> Gene Cluster Encoding the Three Glycolytic Enzymes Glyceraldehyde-3-Phosphate Dehydrogenase, 3-Phosphoglycerate Kinase, and Triosephosphate Isomerase", <i>Journal of Bacteriology</i> , Vol. 174, No. 19, 1992, pp. 6076-6086.
CJ	BEN-BASSAT, A., ET AL., "Processing of the Initiation Methionine from Proteins: Properties of the <i>Escherichia coli</i> Methionine Aminopeptidase and Its Gene Structure", <i>Journal of Bacteriology</i> , Vol. 169, No. 2, 1987, pp. 751-757.
CK	TAUCH, A., ET AL., " <i>Corynebacterium glutamicum</i> DNA is subjected to methylation-restriction in <i>Escherichia coli</i> ", <i>FEMS Microbiology Letters</i> , Vol. 123, 1994, pp. 343-348.
CL	LIEBL, W., ET AL., "Transfer of <i>Brevibacterium divaricatum</i> DSM 20297 <sup>1</sup> , " <i>Brevibacterium flavum</i> " DSM 20411, " <i>Brevibacterium lactofermentum</i> " DSM 20412 and DSM 1412, and <i>Corynebacterium lilium</i> DSM 20137 <sup>1</sup> to <i>Corynebacterium glutamicum</i> and Their Distinction by rRNA Gene Restriction Patterns", <i>International Journal of Systematic Bacteriology</i> , Vol. 41, No. 2, 1991, pp. 255-260.
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CO	SCHRUMPF, B., ET AL., "A Functionally Split Pathway for Lysine Synthesis in <i>Corynebacterium glutamicum</i> ", <i>Journal of Bacteriology</i> , Vol. 173, No. 14, 1991, pp. 4510-4516.
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CR	STADEN, R., "The current status and portability of our sequence handling software", <i>Nucleic Acids Research</i> , Vol. 14, No. 1, 1986, pp. 217-231.
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CU	PATEK, M., ET AL., "Promoters from <i>Corynebacterium glutamicum</i> : cloning, molecular analysis and search for a consensus motif", <i>Microbiology</i> , 1996, Vol. 142, pp. 1297-1309.
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Examiner Signature	Date Considered
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CX	DUNICAN, L. K., ET AL., "High Frequency Transformation of Whole Cells of Amino Acid Producing Coryneform Bacteria Using High Voltage Electroporation", <i>Biotechnology</i> , Vol. 7, 1989, pp. 1067-1070.
CY	LABARRE, J., ET AL., "Gene Replacement, Integration, and Amplification at the <i>gdhA</i> Locus of <i>Corynebacterium glutamicum</i> ", <i>Journal of Bacteriology</i> , 1993, Vol. 175, No. 4, pp. 1001-1007.
CZ	BOLIVAR, F., "Molecular Cloning Vectors Derived From The CoLE1 Type Plasmid pMB1", <i>Life Sciences</i> , Vol. 25, 1979, pp. 807-818.
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CB1	TAUCH, A., ET AL., "The Erythromycin Resistance Gene of the <i>Corynebacterium xerosis</i> R-plasmid pTP10 Also Carrying Chloramphenicol, Kanamycin, and Tetracycline Resistances is Capable of Transposition in <i>Corynebacterium glutamicum</i> ", <i>Plasmid</i> , Vol. 33, 1995, pp. 168-179.
CC1	TSUCHIYA, M., ET AL., "Genetic Control Systems of <i>Escherichia coli</i> Can Confer Inducible Expression of Cloned Genes in Coryneform Bacteria", <i>Biotechnology</i> , Vol. 6, 1988, pp. 428-430.
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CG1	DELAGRAVE, S., ET AL., "Recursive ensemble mutagenesis", <i>Protein Engineering</i> , Vol. 6, No. 3, 1993, pp. 327-331.
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CI1	MARCK, C., "DNA Strider: a 'C' program for the fast analysis of DNA and protein sequences on the Apple Macintosh family of computers", <i>Nucleic Acids Research</i> , Vol. 16, No. 5, 1988, pp. 1829-1836.
CJ1	HOCHULI, E., ET AL., "Genetic Approach to Facilitate Purification of Recombinant Proteins With a Novel Metal Chelate Adsorbent", <i>Biotechnology</i> , Vol. 6, 1988, pp. 1321-1325.
CK1	GUERRERO, C., ET AL., "Directed mutagenesis of a regulatory palindromic sequence upstream from the <i>Brevibacterium lactofermentum</i> tryptophan operon", <i>Gene</i> , Vol. 138, 1994, pp. 35-41.
CL1	ITAKURA, K., ET AL., "Expression in <i>Escherichia coli</i> of a Chemically Synthesized Gene for the Hormone Somatostatin", <i>Science</i> , Vol. 198, 1977, pp. 1056-1063.
CM1	MAKRIDES, S. C., "Strategies for Achieving High-Level Expression of Genes in <i>Escherichia coli</i> ", <i>Microbiological Reviews</i> , Vol. 60, No. 3, 1996, pp. 512-538.
CN1	BERNARD, P., ET AL., "The F Plasmid CcdB Protein Induces Efficient ATP-dependent DNA Cleavage by Gyrase", <i>J. Mol. Biol.</i> , Vol. 234, 1993, pp. 534-541.
CO1	SPRATT, B. G., "Kanamycin-resistant vectors that are analogues of plasmids pUC8, pUC9, pEMBL8 and pEMBL9", <i>Gene</i> , Vol. 41, 1986, pp. 337-342.
CP1	NARANG, S. A., "Tetrahedron Report Number 140 - DNA synthesis", <i>Tetrahedron</i> , Vol. 39, No. 1, 1983, pp. 3-22.
CQ1	SCHMIDT, S., ET AL., "Near infrared spectroscopy in fermentation and quality control for amino acid production", <i>Bioprocess Engineering</i> , Vol. 19, 1998, pp. 67-70.
CR1	ITAKURA, K., ET AL., "Synthesis and Use of Synthetic Oligonucleotides", <i>Ann. Rev.</i>

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		Biochem., Vol. 53, 1984, pp. 323-356.	
	CS1	EIKMANN, B. J., ET AL., "Molecular Aspects of lysine, threonine, and isoleucine biosynthesis in <i>Corynebacterium glutamicum</i> ", Atonie van Leeuwenhoek, Vol. 64, 1993, pp. 145-163.	
	CT1	O'REGAN, M., ET AL., "Cloning and nucleotide sequence of the phosphoenolpyruvate carboxylase-coding gene of <i>Corynebacterium glutamicum</i> ATCC13032", Gene, Vol. 77, 1989, pp. 237-251.	
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	CD2	YAMAGATA, S., ET AL., "Overexpression of the <i>Saccharomyces cerevisiae</i> MET17/MET25 gene in <i>Escherichia coli</i> and comparative characterization of the product with O-acetylserine - O-acetylhomoserine sulphydrylase of the yeast", Appl. Microbiol. Biotechnol., Vol. 42, 1994, pp. 92-99.	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

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